

Figure 1A

No.	Kinase-Subclass	Family	Sub	Protein	$\alpha$ D sequence
1	Serine/Threonine	RAF		c-Raf	TQWCEGSSLYKHLHVQETK F
2	Serine/Threonine	RAF		Araf	TQWCEGSSLYHHLHVADTR F
3	Serine/Threonine	RAF		Braf	TQWCEGSSLYHHLHIETKF
4	Serine/Threonine	CAPK		cAPKa	MEYVPGGEMFSLRRIGRF
4	Serine/Threonine	CAPK		cAPKb	MEYVPGGEMFSLRRIGRF
5	Serine/Threonine	CAPK		cAPKg	MEYVPGGEMFSRLQRVGRF
6	Serine/Threonine	PKC		PKCa	MEYVNGGDLMYHIQQVGK F
7	Serine/Threonine	PKC		PKCb	MEYVNGGDLMYHIQQVGR F
8	Serine/Threonine	PKC		PKCg	MEYVTGGDLMYHIQQLGKF
9	Serine/Threonine	PKC		PKCd	MEFLNGGDLMFHIQDKGRF
10	Serine/Threonine	PKC		PKCe	MEYVNGGDLMFQIQRSRKF
11	Serine/Threonine	PKC		PKCet	MEFVNGGDLMFHIQKSRRF
12	Serine/Threonine	PKC		PKCth	MEYLNNGGDLMYHIQSCHKF

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**Figure 1B**

13	Serine/Threonine	Akt/PKB		Akt1/RacA	MEYANGGELFFHLSRERV
13	Serine/Threonine	Akt/PKB		Akt2/RacB	MEYANGGELFFHLSRERV
14	Serine/Threonine	GSK3		GSK3a	LEYVPETVYRVARHFTKAK LII
15	Serine/Threonine	GSK3		GSK3b	LDYVPETVYRVARHYSRAK QTL
16	Serine/Threonine	CK II		CK IIa	FEHVNNTDFKQLYQTL
17	Serine/Threonine	CK II		CK IIa'	FEYINNTDFKQLYQIL
18	Serine/Threonine	bARK1,2		bARK1	LDLMNGGDLHYHLSQHGV F
18	Serine/Threonine	bARK1,2		bARK2	LDLMNGGDLHYHLSQHGV F
19	Serine/Threonine	GRK1		GRK1	MTIMNGGDIRYHIYNVDED NPGF
20	Serine/Threonine	GRK4		GRK4	LTIMNGGDLKFHIYNLGNPG F
21	Serine/Threonine	GRK5		GRK5	LTIMNGGDLKFHIYNMGNP GF
22	Serine/Threonine	GRK6		GRK6	LTLMNGGDLKFHIYHMGQA GF

**Figure 1C**

23	Serine/Threonine	CaMK		CaMK I	MQLVSGGELFDRIIVEKGGY
24	Serine/Threonine	CaMK		CaMK IIa	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIb	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIg	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IId	FDLVTGGELFEDIVAREYY
25	Serine/Threonine	POLO		Plk	LELCRRRSLLELHKRRKAL
26	Serine/Threonine	POLO		Plx1	LELCRRRSLLELHKRRKAV
27	Serine/Threonine	POLO		polo	LELCCKKRSMMELHKRRKSI
28	Serine/Threonine	POLO		SNK	LEYCSRRSMAHILKARKVL
29	Serine/Threonine	POLO		CDC5	LEICPNGSLMELLKRRKVL
30	Serine/Threonine	POLO		Sak	LEMCHNGEMNRYLKNRVK PF
31	Serine/Threonine	POLO		Prk	LELC SRKSLAHIWKARHTL

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31	Serine/Threonine	POLO		Fnk	LELC SRKSLAHIWKARHTL
32	Serine/Threonine	POLO		Plol	LELCEHKSLMELLRK RKQL
33	Serine/Threonine	MARK/p78		MARK1	MEYASGGEVFDYLV AHGRM
33	Serine/Threonine	MARK/p78		MARK2	MEYASGGEVFDYLV AHGRM
34	Serine/Threonine	MARK/p78		P78	MEYASGGKVFDYLV AHGRM
35	Serine/Threonine	CDK		CDK2	FEFLHQDLKKFMDASALTGI
36	Serine/Threonine	CDK		CDK4	FEHVDQDLRTYLDKAPPPGL
37	Serine/Threonine	CDK		CDK6	FEHVDQDLTTYLDKVPEPGV
38	Tyrosine	SRC		c-Src	TEYMSKGSLLD FLKGETGKYL
39	Tyrosine	SRC		c-Yes	TEFMSKGSLLD FLKEGDGKYL
40	Tyrosine	SRC		Fyn	TEYMNKGSLLD FLKDGEGRAL
41	Tyrosine	SRC		c-Fgr	TEFMCHGSLLD FLKNPEGQDL

**Figure 1E**

42	Tyrosine	LYN/HCK		Lyn	TEYMAKGSLDFLKSDEGGKV
43	Tyrosine	LYN/HCK		Hck	TEFMAKGSLDFLKSDEGSKQ
44	Tyrosine	LCK		Lck	TEYMENGSLVDFLKTPSGIKL
45	Tyrosine	CSK		Csk	TEYMAKGSLVDYLRSGRSLV
46	Tyrosine	CSK		Matk	MEHVSKGNLVNFLRTRGRA LV
47	Tyrosine	FAK		Fak	MELCTLGELRSFLQVRKYSL
48	Tyrosine	ABL		c-Abl	TEFMTYGNLLDYLRNCRQEV
49	Tyrosine	ENDOTHELIAL	Tie/Tek	Tie	IEYAPYGNLLDFLRKSRVLE TDPFAFAREHGTASTL
50	Tyrosine	ENDOTHELIAL	Tie/Tek	Tek	IEYAPHGNLLDFLRKSRVLE TDPFAFANSTASTL
51	Tyrosine	ENDOTHELIAL	FGFR	Flg	VEYASKGNLREYLQARRPP GLEYCYNPSHNPEEQL
52	Tyrosine	ENDOTHELIAL	FGFR	Bek	VEYASKGNLREYLRRARRPP GMEYSYDINRVPEEQM
53	Tyrosine	ENDOTHELIAL	FGFR	FGFR-3	VEYAAKGNLREFLRARRPP GLDYSFDTCKPPEEQL

**Figure 1F**

54	Tyrosine	ENDOTH ELIAL	FGFR	FGFR-4	VECAAKGNLREFLRARRPP GPDLS PDGPRSSEG PL
55	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-a	TEYCFYGD LVNYLHKNRDS FLSHHPEKPKKELDIFGLNP A
56	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-b	TEYCRYGD LV DYLHRNKHT FLQHHSDKRPPSAELYSNA L
57	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt1	VEYCKYGNLSNYLKS KRDL FFLNKDAALHMEPKKEKME PG
58	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt4	VEFCKYGNLSNFLRAKRDA FSPCAEKSPEQRGRFRAMV EL
59	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flk1	VEFSKFGNLSTYL RGKRNEF VPYKSKGARFRQ GKDYVGE L
60	Tyrosine	HGFR		c-Met	LPYMKHGD LRNFIRNETHN P
61	Tyrosine	HGFR		c-Sea	LPYMRHGD LRHFIRAQERSP
62	Tyrosine	HGFR		Ron	LPYMCHGD LLQFIRSPQRNP
63	Tyrosine	EGFR		EGFR	TQLMPFGCLLDYVREHKDN I
64	Tyrosine	EGFR		ErbB2	TQLMPYGCLLDHVREN RGR L
65	Tyrosine	EGFR		ErbB3	TQYLPLGSLLDHVRQHRGA L

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**Figure 1G**

66	Tyrosine	EGFR		ErbB4	TQLMPHGCALLEYVHEHKDN I
67	Tyrosine	RET		Ret	VEYAKYGSLRGFLRESRKV GPGYLGSGGSRNSSSLDHPD ERAL
68	Tyrosine	TRK- NGFR		Trk - NGFR	FEYMRHGDNLNRFLRSHGPD AKLLAGGEDVAPGPL
69	Tyrosine	TRK- NGFR		TrkB	FEYMKHGDNLNKFLRAHGPD AVLMAEGNPPTTEL
70	Tyrosine	TRK- NGFR		TrkC	FEYMKHGDNLNKFLRAHGPD AMILVDGQPRQAKGEL
71	Tyrosine	SYK/ZA P70		Syk	MEMAELGPLNKYLQQNRH V
72	Tyrosine	SYK/ZA P70		Zap70	MEMAGGGPLHKFLVGKRE EI
73	Tyrosine	TYK/JA K		Jak1	MEFLPSGSLKEYLPKNKNKI
74	Tyrosine	TYK/JA K		Jak2	MEYLPYGSLRDY LQKHKE R I
75	Tyrosine	TYK/JA K		Jak3	MEYLP SGCLRD FLQRHRA R L
76	Tyrosine	TYK/JA K		Tyk2	MEYVPLGSLRDY LPRHS I
77	Serine/Threonine	IAK		Iak1	LEYAPLGTVYRELQKLSKF

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**Figure 1H**

78	Serine/Threonine	CHK		Chk1	LEYCSGGELFDRIEPDIGM
79	Serine/Threonine	IKK		IKK-1	MEYCSGGDLRKLLNKPENC CGL
80	Serine/Threonine	IKK		IKK-2	MEYCQGGDLRKYLNQFEN CCGL
81	Serine/Threonine	DAPK		DAPK	LELVAGGELFDFLAEKESL
82	Tyrosine	IRK		IRK	MELMAHGDLKSYLRSLRPE AENNPGRPPPTL
83	Serine/Threonine	Activin/T GFbR	TGFbR	TGFbRII	TAFHAKGNLQEYLTRHVI
84	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIA	TAFHEKGSLSDFLKANVV
85	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIB	TAFHDKGSLTDYLGKNI
86	Serine/Threonine	Activin/T GFbR	ALK	ALK1	THYHEHGSLYDFLQRQTL
87	Serine/Threonine	Activin/T GFbR	ALK	ALK2	THYHEMGSLYDYLQLTTL
88	Serine/Threonine	Activin/T GFbR	ALK	ALK3	TDYHENGSLYDFLKCATL
89	Serine/Threonine	Activin/T GFbR	ALK	ALK4	SDYHEHGSLFDYLNRYTV



**Figure 1I**

89	Serine/Threonine	Activin/T GFbR	ALK	ALK5	SDYHEHGSLFDYLNRYTV
90	Serine/Threonine	Activin/T GFbR	ALK	ALK6	TDYHENGSLYDYLKSTTL
91	Tyrosine	DDR		DDR1	TDYMENGDLNQFLSAHQL
92	Tyrosine	DDR		DDR2	TEYMENGDLNQFLSRHEP
93	Serine/Threonine	ILK		ILK	THWMPYGSLYNVLHEGTNF VV
94	Tyrosine	MAPK		JNK	MELMDANLCQVIQMEL

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Figure 2A

Protein Kinase

c-Raf	T	Q	W	C	E	G	S	S	L	Y	K	H	L	H	I	E	T	K	F
Araf	S	N	F	S	D	A	T	T	I	F	H		I		V	D	S	R	W
Braf			Y	*					M	W	R		M		M	*			Y
									V				V		L				

cAPKa	M	E	Y	V	P	G	G	E	M	F	S	H	L	R	R	I	G	R	F
cAPKb	I	Q	F	L	N	A	A	D	L	M	F	R	I	Q	H	V	R	K	W
cAPKg	L	D	W	A	T			*	I	W	Y	Q	M	S	Q	E	H	V	Y
	V	N		I	S				V	Y	W	K	V	K	D	L	K	I	
		*		M	Q					I	T	N		N	K	K	A	L	
				G						L				T	S	S		M	
										V					N	C			
															E	M			
															T	D			
															*	R			
																T			
																*			

PKCa	M	E	Y	V	N	G	G	D	L	M	F	H	I	Q	Q	V	G	K	F
PKCb	I	D	F	L	T	A	A	E	I	I	Y	Q	L	N	D	L	R	R	W
PKCc	L	*	W	I	Q			*	M	L	W	N	M		R	K	H		Y
PKCd	V			M	S				V	V			V		K	S	K		
PKCe															S	C	A		
PKCet															N	I			
PKCth															E	M			
															T	R			
															*	T			

Akt1/RacA	M	E	Y	A	N	G	G	E	L	F	F	H	L	S	R	E	R	V	F
Akt2/RacB	I	Q	F	V	Q	A	A	D	I	W	W		I	T	H	D	K	I	W
DmRAC	L	D	W	I				*	M	Y	Y		M		K	*			L
	V	N		L					V				V						M
		*		M															
				G															

GSK3a	L	E	Y	V	P	E	T	V	Y	R	V	A	R	H	Y	T	K	A	K	Q	I	I
GSK3b	I	D	F	I		D	S	I	H	K	I	I	K	Q	F	S	R	T	N	L	T	L
Sgg/zw3	M	*	W	L		*		L	F		L	V		N	W	A		L	R	N	R	M
ASK-a	V			M				M	W		M	L				N		S	Q	I	L	V
ASK-g											M					Q		I		M	M	
											G					G		M		V	V	
																		V		S		
																		G		K		

CK IIa	F	E	H	V	N	N	T	D	F	K	Q	L	Y	Q	T	L						
CK IIa'	W	D	Y	I	Q	Q	S	E	W	R	N	I	F	N	I	I						
	Y	*	F	L				*	Y			M	W		S	M						
				W	M							V			M	V						
															V							
															L							

Figure 2B

bARK1	L D L M N G G D L H Y H L S Q H G V F N P G F
bARK2	M T I I Q A A E I R F I Y N V D E D G F A W
GRK1	I E M L * M K W M T H L E N P Q W Y
GRK4	V S V V V V F M A Q A A Y
GRK5	* W I * I W
GRK6	L Y
	M E
	D G
	* *

CaMK I	M Q L V S G G E L F D R I V E K G G Y
CaMK IIa	F D I I T A A D I W E D L I A R E Y F
CaMK IIb	W N M L * M Y * K M L D D F W
CaMK IIg	Y E V M V E V M G A W
CaMK IId	I * * * A
	L
	V

Plk	L E L C R R R S L L E L H K R R K A L F
Plx1	I D I S K K G E M M A I L R A H S V W
Polo	M * Y S N K D I N R Y W N V V I Y
SNK	V M P H A T V A H M I K R K P
CDC5	V H Q * I D V M Q I T M
Sak	F E V K F V G L Q
Prk	W T Q G W F M T
Fnk	D G * Y I
Plo1	* L
	M
	R
	N
	G

P78	M E Y A S G G E V F D Y L V A H G R M
MARK1	L D F G T A A K I W E F I I G A K I
MARK2	I * W D L Y * W M L L
Par1	V R M V M V
	*

CDK2	F E F L H Q D L K K F M D A V A L T G I
CDK4	W D H V D N E I R T Y L E K S P P A L
CDK6	Y * W I E * M T R W I * R A G E S V
	Y M * V S S V G I I M
	L M
	M V
	T D
	*

Figure 2C

c-Src	T E F M S K G S L L D F L K G E T G K Y L
c-Yes	M D Y V N H A N I V N Y I R E G S R R A V
Fyn	S * H I C N T M I E W M D P D K Q D Q
c-Fgr	I W L A R Q V M Q V N D E A G K I
Lyn	L E Q *
Hck	V T K A I L N
Lck	Q A * A F
Csk	A * N W
Matk	G T E R
	* M I V M G *

Fak	M E L C T L G E L R S F L Q V R K Y S L
	I D I S S I A D I K T W I N I K R F T I
	L * M M * M Y M L W M
	V V V V V M V

c-Abl	T E F M T Y G N L L D Y L R E C N R Q E V
	S D W I S F A Q I I E F I K D S Q K N D I
	* Y L W M M * W M * L
	V V V V M

Tie	I E Y A P Y G N L L D F L R K S R V L E T D P A F A R E H G T
Tek	T D F C R H A D I V N Y I H R N K H T F L Q H S D I A N S P
PDGFR-b	V * W S F F Q M S T W M K S D S D F S N K P E K R R P E
PDGFR-a	L T K W E V I E V A T N A W S L C R D K A P K K R S
Flt1	M G W * M Q G Q I E Y V P Y G W G S L E M S D
Flt4	S Y T S * T R I I * I E Q * L K D F K
Flk1	
	MM EV WTW Y I S M V * T * M I * T * R I L V N W Y A
	Q D G * Y I S M V * T * M I * T * R I L V N W Y A

Tie	S T L Y S N A L
Tek	A E F G L E P A
PDGFR-b	D I E K M V E G
PDGFR-a	K K R A V G D I
Flt1	R F D F T Q G M
Flt4	G S I W I D * V
Flk1	T D M R I
	E L V L
	* M W M
	V Y A
	R K *
	W *
	Y
	*

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**Figure 2D**

Flg	V E Y A S K G N L R E Y L Q A R R P P	G L E Y C Y N P S H N P
Bek	I D C G A R A Q I K D F I R G K K	A M D L S F D I N R V S
FGFR-3	L * F T M * W M N	P * F T P Q T C K P T
FGFR-4	M W G V V K	I W W E G P S
	S	V I M * L T Q I
		V V S A T

Flg	E Q L
Bek	G P M
FGFR-3	D N I
FGFR-4	A V
	*

c-Met	L P Y M K H G D L R N F I R N E T H N P
c-Sea	I F I R A E I L H W L K A Q E R S
Ron	M W L C * M K Q Y M S P Q K Q
	V V S V I V Q D S T
	M T N D
	V G * N
	*

EGFR	T Q L M P F G C L L D Y V R E H K D N I
ErbB2	S N Y L Y A S I I E H I H Q N R G R L
ErbB3	I I L T M M * F L K D Q E A M
ErbB4	M V H V V W M N A Q V
	V W I * K
	F I G
	W M V

Ret	V E Y A K Y G S L R G F L R E S R K V G P G Y L G S G G S R N
	I D F G R F A T I K A W I K D T K R I A A F I A T A A T K Q
	L * W W M Y M * L W M
	M V V M V

Ret	S S L D H P D E R A L
	T T I E E D K G I
	M * * * M
	V V

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Figure 2E

Syk	MEMAE L G P L N K Y L Q Q N R H V I
Zap70	ID I G G G A I H R F I V G K K E E L
	L * L D I M Q W M N N Q D I M
	V V A M V V I A R * L V
	* V L M D
	A M *
Jak1	ME F L P S G S L K E Y L P K N K N K I
Jak2	ID Y I Y A C I R D F I Q R H R E R L
Jak3	L * W M T T M * W M N Q S A M
Tyk2	V V F V V T Q V
	W D
	L G
	I I L
	*
Iak1	LE Y A P L G T V Y R E L Q K L S K F
	ID F G I A S I F K D I N R I T R W
	M * W M L W * M M Y
	V V M V V
Chk1	LE Y C S G G E L F D R I E P D I G M
	ID F S T A A D I W E K L D E L A I
	M * W * M Y * M * * M L
	V V V V V
IKK-1	ME Y C S G G D L R K L L N K P E N C C G L
IKK-2	ID F S Q A A E I K R Y I Q Q F D Q S S A I
	L * W T * M I M R W * M
	V N V M V N Y V
	V F W
DAPK	LE L V A G G E L F D F L A E K E S L
	ID I I G A A D I W E W I G D R D T I
	M * M L * M Y * Y M * * M
	V V M V V V
IRK	M E L M A H G D L K S Y L R S L R P E A E N N P G R P P P T L
	ID I I G A E I R T F I K T I K D G D Q Q A K S I
	L * M L * M W M M * *
	V V V V V V
TGFbRII	T A F H A K G N L Q E Y L T R H V I
ACTRIIA	S G W E R A S I S D F I K A N I V
ACTRIIB	Y D Q M T * W M S G Q L L
	G T V V R K M M
	*

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Figure 2F

ALK1	T	H	Y	H	E	H	G	S	L	Y	D	F	L	Q	R	Q	T	L
ALK2	S	D	F		D	M	A	T	I	F	E	Y	I	K	L	T	S	V
ALK3		E	W		*	N			M	W	*	W	M	N	C	A		I
ALK4		*				I			V			V	R	S	Y		M	
ALK5						L									K	N		
ALK6						V									I	S		
						Q									M	F		
															V	W		
															T	G		

Trk-NGFR	F	E	Y	M	R	H	G	D	L	N	R	F	L	R	S	H	G	P	D	A	K	L	L	A	G	G	E	D	V	A	P
TrkB	W	D	F	I	K		A	E	I	Q	K	W	I	K	A		A		E	G	V	I	M	V	E	A	N	P	P	T	E
TrkC	Y	*	W	L				*	M			Y	M		T			*		M	M	I	I	D		Q	E	R	Q	A	
				V					V			V		G						R	V	V	L	A		D	*	I	S	D	
																				I		M	*		*			L	N	G	
																				L		G						M	G	*	
																													K		

Trk-NGFR	P	L	L
TrkB	G	E	I
TrkC	A	I	M
		M	V
		V	
		D	
		*	

DDR1	T	D	Y	M	E	N	G	D	L	N	Q	F	L	S	A	H	Q	L
DDR2	S	E	F	I	D	Q	A	E	I	Q	N	W	I	T	R		E	P
		*	W	L	*			*	M			Y	M	K		N	I	
				V					V			V	G		D	V		
															*	M		

ILK	T	H	W	M	P	Y	G	S	L	Y	N	V	L	H	E	G	T	N	F	V	V
	S		F	I		F	A	T	I	F	Q	I	I		D	A	S	Q	W	I	I
			Y	L		W			M	W		L	M	*				Y	L	L	
				M					V			M	V							M	M

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**Figure 3A**

Peptide	N-terminal	C-terminal
<u>Akt1/Rac</u>		
95 K014D001	Myristyl - G M E Y A N G G E L F F H L S R E R V F	- NH2
<u>ALK1</u>		
96 K048D101	Myristyl - G T H Y H E H G S L Y D F L Q R Q T L	- NH2
<u>Braf</u>		
97 K003D001	Acetyl - K K K K K K G G S S L Y H H L H I I E T K F	- NH2
98 K003D101	Myristyl - G T Q W S E G S S L Y H H L H I I E T K F	- NH2
<u>c-Abl</u>		
99 K061D101	Myristyl - G T E F M T Y G N L L D Y L R E C N R Q E V	- NH2
<u>c-Met</u>		
100 K073D101	Myristyl - G L P Y M K H G D L R N F I R N E T H N P	- NH2
<u>c-Raf</u>		
101 K001D101	Myristyl - G T Q W S E G S S L Y K H L H V Q E T K F	- NH2
102 K001D001	Acetyl - S S L Y K H L H V Q E T K F	- NH2
<u>c-Sea</u>		
103 K074D101	Myristyl - G L P Y M R H G D L R H F I R A Q E R S P	- NH2
<u>c-Src</u>		
104 K051D101	Myristyl - G T E Y M S K G S L L D F L K G E T G K Y L	- NH2
105 K051D001	Acetyl - G S L L D L K G E T G K F L	- NH2
<u>CDK2</u>		
106 K049D101	Myristyl - G F E F L H Q D L K K F M D A S A L T G I	- NH2
107 K049D001	Acetyl - D L K K F M D A S A L T G M	- NH2
<u>CDK4</u>		
108 K050D001	Acetyl - D L R T Y L D K A P P P G L	- NH2
109 K050D101	Myristyl - G F E H V D Q D L R T Y L D K A P P P G L	- NH2
<u>CDK6</u>		
110 K089D101	Myristyl - G F E H V D Q D L T T Y L D K V P E P G V	- NH2
<u>Chk1</u>		
111 K088D102	Myristyl - G E Y S S G G E L F D R I E P D I G M	- NH2
112 K088D101	Myristyl - G E Y A S G G E L F D R I E P D I G M	- NH2
<u>CK IIa</u>		
113 K022D001	Acetyl - K K K K K G G N N T D F K Q L Y Q T L	- NH2
114 K022D101	Myristyl - G F E H V N N T D F K Q L Y Q T L	- NH2



**Figure 3B**

<u>Csk</u>		
115 K058D101	Myristyl - G T E Y M A K G S L V D Y L R S R G R S V L	- NH2
116 K058D001	Acetyl - G S L V D L R S R G R S V L	- NH2
<u>Fak</u>		
117 K060D101	Myristyl - G M E L S T L G E L R S F L Q V R K Y S L	- NH2
<u>FGFR-3</u>		
118 K071D101	Myristyl - G G N L R E F L R A R R P P G L E	- NH2
119 K071D001	Acetyl - G N L R E F L R A R R P P G L E	- NH2
120 K071D102	Myristyl - G V E Y A A K G N L R E F L R A R R P P G L E	- NH2
121 K071D901	Stearyl - G S F D T S K P P E E Q L	- NH2
<u>Flk1</u>		
122 K068D101	Myristyl - G V E F S K F G N L S N F L R A K R N L F V P	- NH2
123 K068D101	Myristyl - G G N L S N F L R A K R N L F V P	- NH2
124 K068D001	Acetyl - G N L S N F L R A K R N L F V P	- NH2
125 K068D901	Stearyl - G R F R Q G K D Y V G E L	- NH2
<u>GSK3b</u>		
126 K018D003	Acetyl - K K K K K K G G G V A R H Y S R A K Q T L P	- NH2
127 K018D002	Acetyl - V A R H Y S R A K Q T L P	- NH2
128 K018D101	Myristyl - G D Y V P E T V Y R V A R H Y S R A K Q T L	- NH2
129 K018D001	Acetyl - R V A R H Y S R A K Q T	- NH2
<u>Hck</u>		
130 K056D101	Myristyl - G T E F M A K G S L L D F L K S D E G S K Q	- NH2
<u>Iak1</u>		
131 K087D101	Myristyl - G L E Y A P L G T V Y R E L Q K L S K F	- NH2
<u>IKK-1</u>		
132 K090D101	Myristyl - G M E Y S S G G D L R K L L N K P E N S S G L	- NH2
<u>IKK-2</u>		
133 K091D101	Myristyl - G M E Y S Q G G D L R K Y L N Q F E N S S G L	- NH2
<u>ILK</u>		
134 K107D101	Myristyl - G T H W M P Y G S L Y N V L H E G T N F V V	- NH2
135 K107D901	Stearyl - G Y N V L H E G T N F V V	- NH2

**Figure 3C**

<b><u>IRK</u></b>		
136 K094D101	Myristyl - G M E L M A H G D L K S Y L R S L R P	- NH2
137 K094D001	Acetyl - A Q N N P G R P P P T L	- NH2
138 K094D102	Myristyl - G L K S Y L R S L R P E A	- NH2
139 K094D103	Myristyl - G A E N N P G R P P P T L	- NH2
140 K094D104	Myristyl - G L R P E A E N N P G R P P P T L	- NH2
<b><u>Jak1</u></b>		
141 K084D101	Myristyl - G M E F L P S G S L K E Y L P K N K N K I	- NH2
142 K084D102	Myristyl - G L K E Y L P K N K N K I	- NH2
<b><u>Jak2</u></b>		
143 K085D102	Myristyl - G L R D Y L Q K H K E R I	- NH2
144 K085D105	Stearyl - G L R D Y L Q K H K E	- NH2
<b><u>Jak3</u></b>		
145 K086D101	Myristyl - G M E Y L P S G S L R D F L Q R H R A L	- NH2
146 K086D102	Myristyl - G M E Y L P S G S L R D F L Q R H R A R L	- NH2
147 K086D103	Myristyl - G L R D F L Q R H R A R L	- NH2
<b><u>Lck</u></b>		
148 K057D001	Acetyl - G S L V D I L K T P S G I K L	- NH2
149 K057D101	Myristyl - G T E Y M E N G S L V D F L K T P S G I K L	- NH2
<b><u>Lyn</u></b>		
150 K055D101	Myristyl - G T E Y M A K G S L L D F L K S D E G G K V	- NH2
<b><u>MARK1</u></b>		
151 K045D101	Myristyl - G M E Y A S G G E V F D Y L V A H G R M	- NH2
<b><u>PDGFR-b</u></b>		
152 K064D001	Acetyl - G D I L V D I Y L H R N K H T F L	- NH2
153 K064D101	Myristyl - G T E Y S R Y G D L V D Y L H R N K H T F L	- NH2
<b><u>PKCb</u></b>		
154 K008D101	Myristyl - G M E Y V N G G D L M Y H I Q Q V G R F	- NH2
155 K008D001	Acetyl - K K K K K K G G D L M Y H I Q Q V G R F	- NH2
<b><u>Plk</u></b>		
156 K035D001	Acetyl - R S L L E I L H K R R K A	- NH2
157 K035D101	Myristyl - G R S L L E I L H K R R K A	- NH2

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Figure 3D

158 K035D102 Myristyl - G L E L S R R R S L L E L H K R R K A L -NH2  
Ret  
159 K080D101 Myristyl - G V E Y A K Y G S L R G F L R E S R K V G P -NH2  
160 K080D001 Acetyl - G S L R G F L R E S R K V G P -NH2  
Ron  
161 K075D101 Myristyl - G L P Y M C H G D L L Q F I R S P Q R N P -NH2  
SNK  
162 K038D101 Myristyl - G L E Y S S R R S M A H I L K A R K V L -NH2  
Syk  
163 K082D101 Myristyl - G M E M A E L G P L N K Y L Q Q N R H V -NH2  
TGFbRII  
164 K093D101 Myristyl - G T A F H A K G N L Q E Y L T R H V I -NH2  
TrkB  
165 K102D101 Myristyl - G F E Y M K H G D L N K F L R A H G P D A V L M A -NH2  
166 K102D106 Myristyl - G L R A H G P D A V L M A -NH2  
167 K102D107 Myristyl - G L R A H G P D A V L -NH2  
168 K102D108 Myristyl - G L N F K L R A H G P D A -NH2  
169 K102D109 Myristyl - G F K L R A H G P D A V L -NH2  
Zap70  
170 K083D101 Myristyl - G M E M A G G G P L H K F L V G K R E E I -NH2

# % change in daily food consumption (g/mouse/d)

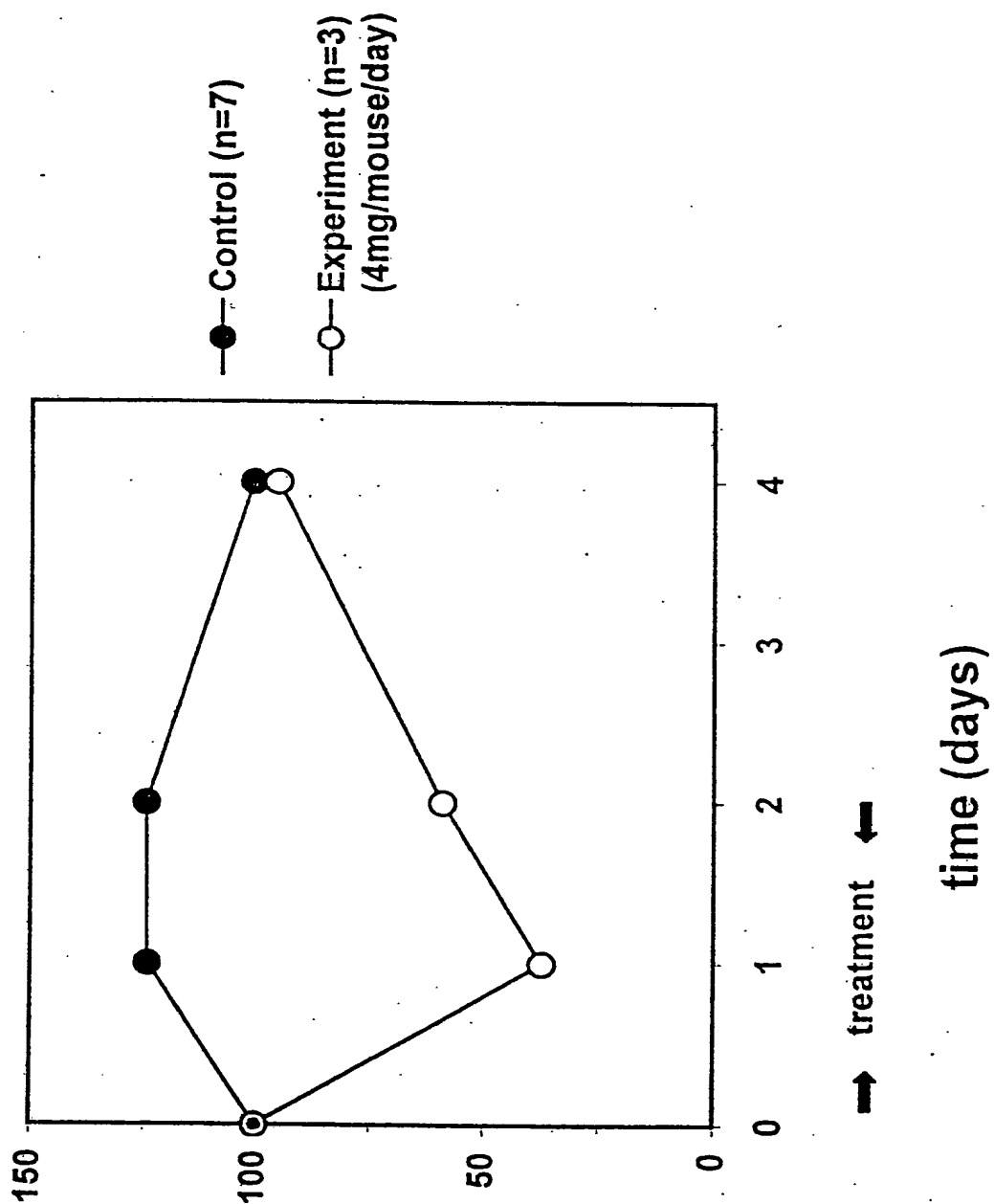


Figure 4

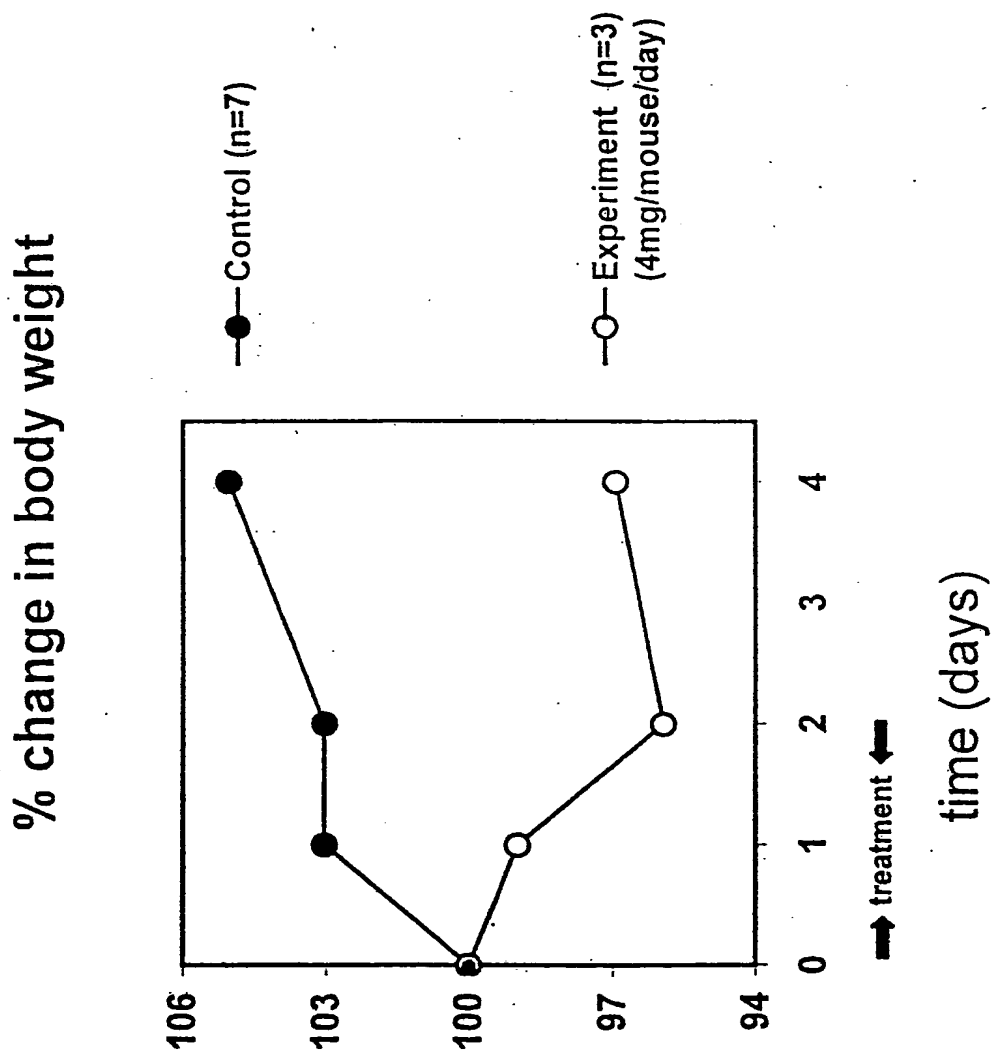


Figure 5

# MODULATION OF TH1/TH2 DIFFERENTIATION BY A JAK-DERIVED PEPTIDE

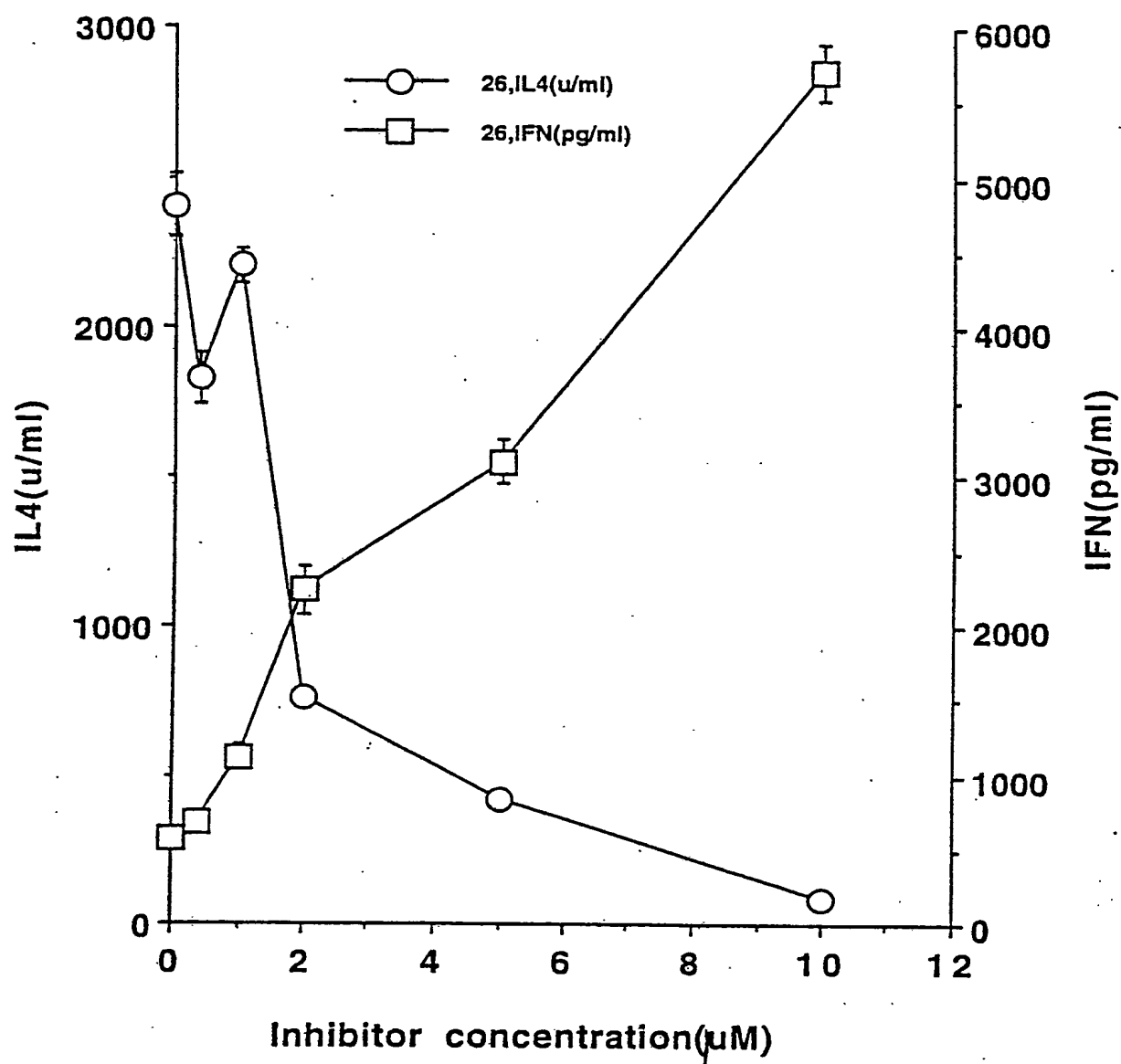


Figure 6

205TH-ET36001

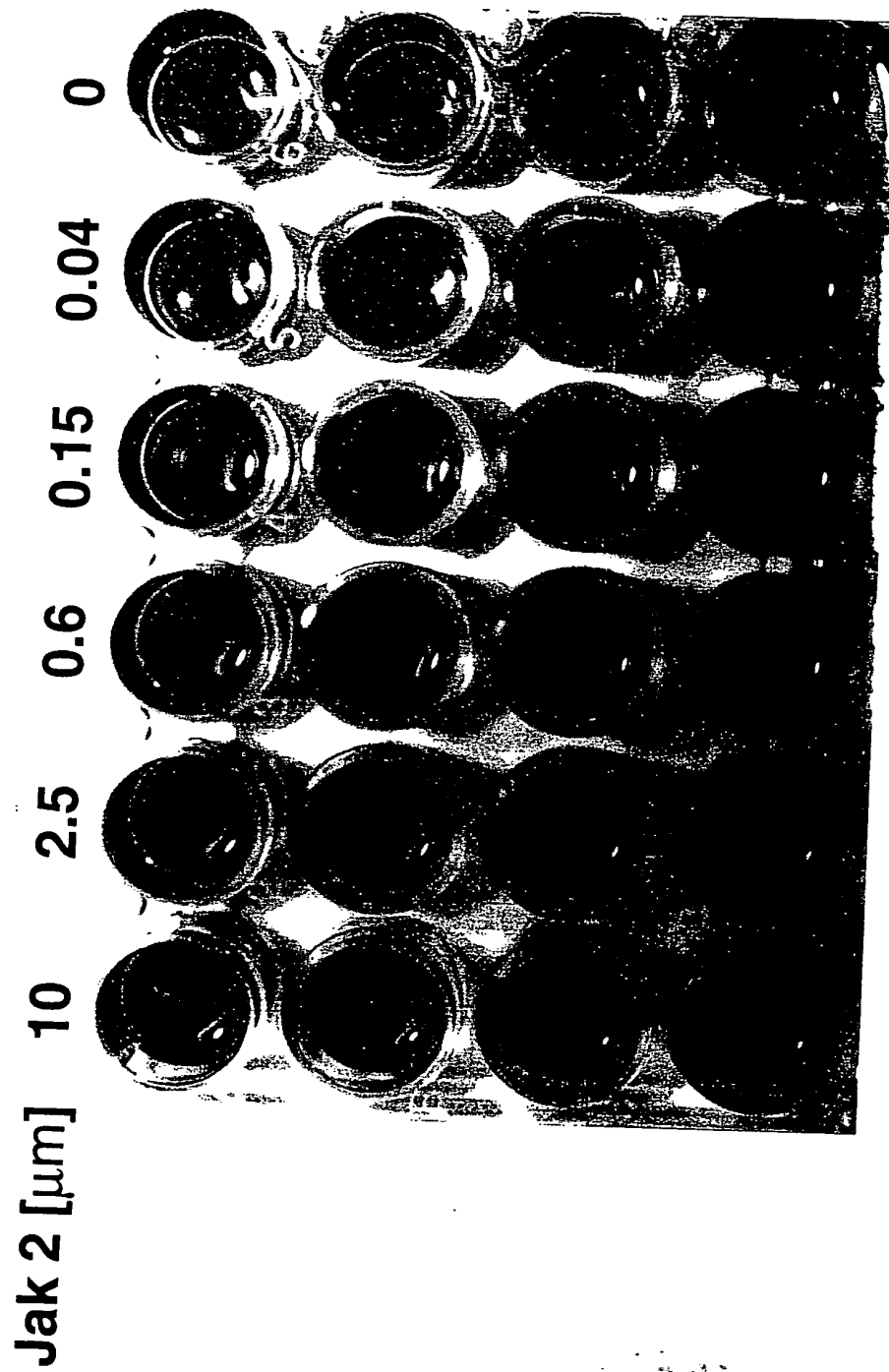


Fig. 7